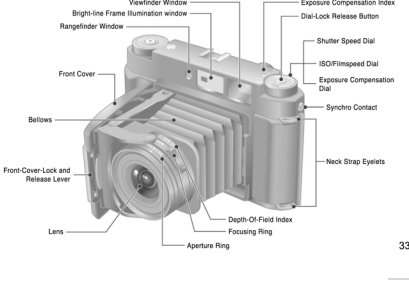
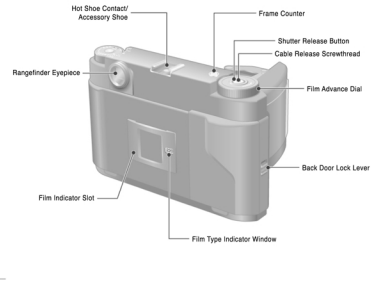


Description of Controls

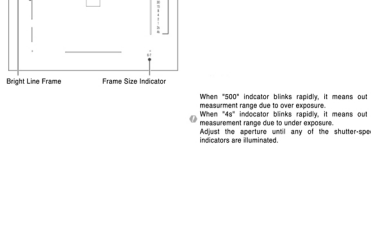


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Indicators in Viewfinder



When "500" indicator blinks rapidly, it means out of measurement range due to over exposure. When "4s" indicator blinks rapidly, it means out of measurement range due to under exposure. Adjust the aperture, until any of the shutter-speed indicators are illuminated.

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Attaching Neck Strap



Attach the neck-strap to the camera as illustrated.

- When using optional strap, make sure it is strong enough to use.
- Do not use straps designed for cell-phones.

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Attaching/Removing finder eyepiece

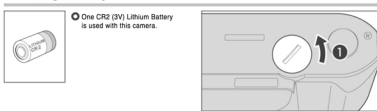


To attach, turn the eyepiece finder clockwise.

To remove, turn it counter-clockwise.

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Inserting Battery



One CR2 (3V) Lithium Battery is used with this camera.

- Turn the battery chamber lid counterclockwise using a coin or something similar.

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- Place the battery in the slot positive (+) side is at the bottom of the battery chamber.

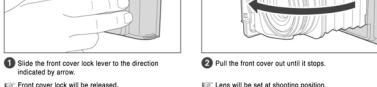
- Turn the battery chamber lid clockwise until it is firmly closed.

Battery Check
Fold out the lens and lightly press the shutter release button. Now the exposure metering system is switched on. When the shutter speed indicator is lit, then battery condition is satisfactory. When the shutter speed indicator blinks fast, then the battery is running out of power. Replace the battery. When any of the shutter speed indicators lights up or blinks, then the battery needs to be replaced or it has been loaded incorrectly. Even if the battery is out of power, you can press the shutter release button and advance the film, however, the shutter will not open without battery power.

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Open the front cover (Power switch On)

When the front cover is open, main power switch will be on.



- Slide the front cover lock lever to the direction indicated by arrow.

Front cover lock will be released.

- Pull the front cover out until it stops.

Lens will be set at shooting position.

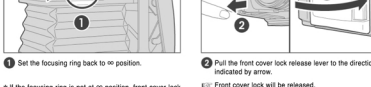
- Pull the front cover out slowly, a fast movement may cause damage to the bellows.

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Close the front cover (Power switch Off)

When the front cover is closed, main power is switched off.



- Set the focusing ring back to no position.

If the focusing ring is not at no position, front cover lock will not release and lens standard can not be folded back. Do not force the folding of the lens standard. Do not leave filter and/or hood on the lens when folding.

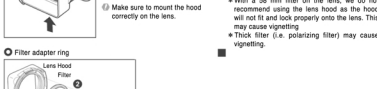
- Pull the front cover lock release lever to the direction indicated by arrow.

Front cover lock will be released.

- Keep the front cover lock release lever pulled and close the front cover.

When the front cover is closed, shutter release button will be locked and can not be depressed.

Attaching/Detaching Lens Hood



Lens Hood is optional.

- Press both knobs on the top and bottom of the hood and, put the hood on the lens.

Make sure to mount the hood correctly on the lens.

- Turn the adapter ring on lens hood counterclockwise to take it off.

Set filter on adapter ring.

- Put adapter ring back on the hood.

Filters

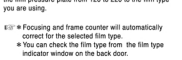
- The Bessa-II lens Hood uses filters with 40.5mm diameter.
- Thick filter (i.e. polarizing filter) may cause vignetting.
- If you use a polarizing filter, select the one with thin frame for wide-angle lenses.

Attaching filter directly to the lens barrel. Use a 58 mm diameter filter. With a 58 mm filter on the lens, we do not recommend using the lens hood as the hood will not fit and lock properly onto the lens. This may cause vignetting. Thick filter (i.e. polarizing filter) may cause vignetting.

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Film type setting



While pushing the film pressure plate down gently, slide the film pressure plate from 120 to 220 to the film type you are using.

- Focusing and frame counter will automatically correct for the selected film type.
- You can check the film type from the film type indicator window on the back door.

Frame Counter	120 film	220 film
6x7 cm	10	20
6x6 cm	12	24

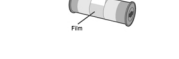
If you are using 120 1/2 film (8 shots at 6x6cm), set the film type selector to 120. However, frame counter will not work with this setting. After shooting the 8 frames of the film, continue release and wind the film roll onto the take-up spool.

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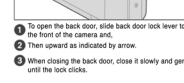
Loading Film

- 120/220 film to be used with Bessa-II



Easy Loading
With Easy Loading system, you can load the film quickly and safely by placing the hole on the leader of the film on the hook in the spool slot. The Easy Loading system prevents film slack and improper loading.

Open/Close of back door

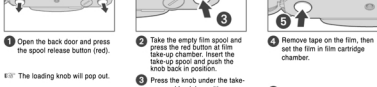


- To open the back door, slide back door lock lever to the front of the camera and, pull the back door open.
- Then upward as indicated by arrow.
- When closing the back door, close it slowly and gently until the lock clicks.

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Loading film



- Open the back door and press the spool release button (red).

The loading knob will pop out.

- Take the empty film spool and press the red button at film take-up chamber. Insert the take-up spool and push the knob back in position.

- Press the knob under the take-up spool back in position.

- Push the loading knob back in position.

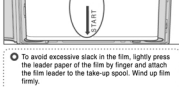
Check the frame counter window. When its indicator changes from "5" to "1", the camera is ready for the first picture.

- Film advance dial can be used independently with the front cover open or closed.
- When you wind the film with the front cover open, do not release the shutter until frame counter indicates "1", otherwise double exposure on first frame may occur.

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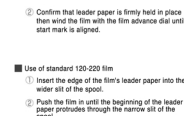
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Unloading film



- After finishing your film, turn film advance dial until the film is completely on the take-up spool.

When the leader paper is released from film spool in film spool chamber, the film advance dial will be lighter to turn.



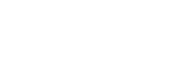
- Press spool release button for the film take-up chamber.
- Take out the film.
- Take the film tightly by the end tip. Make sure the film is not "loose" on the take-up spool. Take out the spool from the film loading chamber and place in film take-up chamber.

The film is wrapped by protective backing paper, however if the film is too loose on the roll it might be exposed through the edges. Do not leave film in bright place. Load and unload film in subdued light. Store in dark place like shield bag.

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Holding Camera



Hold the camera with both hands.

- Focusing Range 0.9m - ∞
- Viewfinder Frame coverage 88% at 3m

- Field of view in finder and parallax
Compose the frame within bright frame-lines in the view finder.

The parallax is automatically corrected according to the focusing distance set by the focusing ring on the lens. The subject matter within the bright frame-lines will be in the picture.



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Focusing



- Lock through the viewfinder and keep the subject you are focusing on centered in the bright frame.
- Turn The Focusing Ring.
- Adjust the lens until the doubles image in the rangefinder patch converge into one.



- When focusing with IR film
With IR film, focusing point differs from normal film. When shooting with IR film, first focus on the subject in the viewfinder then adjust the indicated focusing point on the Focusing Ring to the red mark above the figure "9" indication on the Depth of Field Index ring. Difference of focusing point between normal film and IR film will be compensated.

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Shutter Release and Film Advance

When the Frame Counter indicates "1" or more, shutter will be released by pressing Shutter Release Button.



- Press the Shutter Release Button

- Turn The Film Advance Dial counterclockwise until it stops.

Film is now advanced to the next frame and the Frame Counter indicator will show film.

Turn the Film Advance Dial slowly. Rapid turning may cause improper film advance.

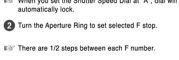
In order to avoid blurred picture, hold the camera lightly and steadily then press the Shutter Release Button gently. Use tripod and cable release when the shutter speed is slower than 1/30 sec.

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Exposure Setting

Aperture Priority AE
Aperture priority auto exposure(AE) mode is available. The camera will automatically select the proper shutter speed based on the lens aperture value and brightness of the subject.



- Set Shutter Speed Dial to "A" position.

When you set the Shutter Speed Dial at "A", dial will automatically lock.

- Turn the Aperture Ring to selected F stop.

There are 1/2 steps between each F number.

Set the aperture to a full click stop, otherwise proper exposure value might not be selected.

- Indicators in View Finder
When the Shutter Release Button is pressed halfway
When the camera is in Aperture Priority AE mode.

Shutter Speed Indicator illuminated number shows the selected shutter speed.
Selected proper exposure value is set by the camera.

When "500" indicator blinks rapidly, it means out of measurement range due to over exposure. When "4s" indicator blinks rapidly, it means out of measurement range due to under exposure. Turn the aperture dial until any of the shutter speeds are indicated.

While the Shutter Release Button is pressed halfway, AE will be locked. While AE is locked the measured exposure value will be kept.

Manual Exposure -Setting of Aperture and Shutter Speed-



- Align the F stop figure you selected to the index (white line) on the lens.

There is 1/2 steps between each F stops.

- While pressing the Dis-Lock Release Button turn the Shutter Speed Dial to release from Auto the index.

While the selected shutter speed indicator with the index.

There are click stops on each of the shutter speeds.

Set the shutter speed at each click stop otherwise proper shutter speed may not be set.

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Connecting Cable Release



Screw cable release to the thread on the Shutter Release Button.

Depth-Of-Field Indicator

When you are focusing on a given subject, objects in the foreground and background will appear out of focus depending on the f-stop used.

To achieve more depth-of-field, the lens needs to be stopped down to a higher f-stop number. To obtain the full depth-of-field range at different exposure settings the depth of field scale is used.

For details, please refer to the depth-of-field chart.

Permissible circle of confusion : 0.05mm

	0.9m	1.0m	1.5m	2.0m	3.0m	4.0m	5.0m	6.0m	10.0m	20m	∞
F3.5	0.89	0.98	1.46	1.92	2.80	3.65	4.45	5.22	7.97	13.18	37.96
F4	0.89	0.98	1.45	1.91	2.78	3.63	4.44	5.21	7.97	13.18	42.17
	0.91	1.02	1.55	2.10	3.26	4.49	5.70	7.22	14.03	48.1	∞

F5.6	0.89	0.97	1.43	1.87	2.70	3.47	4.19	4.86	7.14	11.03	34.18
	0.92	1.03	1.56	2.15	3.38	4.79	6.32	7.88	16.85	∞	∞
F8	0.87	0.96	1.40	1.82	2.59	3.29	3.93	4.51	6.39	9.32	17.15
	0.93	1.04	1.61	2.22	3.57	5.12	6.93	9.07	23.60	∞	∞

F11	0.86	0.95	1.37	1.76	2.46	3.08	3.61	4.09	5.57	7.64	12.17
	0.95	1.06	1.67	2.33	3.68	5.80	8.27	11.54	25.08	∞	∞
F16	0.84	0.93	1.32	1.68	2.29	2.81	3.26	3.62	4.72	6.11	8.65
	0.97	1.09	1.75	2.50	4.42	7.17	11.41	18.88	∞	∞	∞

F22	0.82	0.90	1.26	1.67	2.29	2.81	3.26	3.62	4.72	6.11	8.65
	1.00	1.13	1.88	2.80	5.53	10.78	24.97	∞	∞	∞	∞

Specifications

Type	6x7 type rangefinder folding camera.
Film format	6x7 size : 56mm x 69mm, 6x6 size : 56mm x 56mm

Film	Frames
	120/220 roll film
	6x7 size : 120 : 10 shots, 220 : 20 shots
	6x6 size : 120 : 12 shots, 220 : 24 shots

Lens	Minimum Aperture
	Voigtländer Hellar f=80mm 1:3.5
	4 groups, 6 elements
	F22
Angle of view	6x7 size : 57° 6x6 size : 53°

Focusing	Range
	Manually controlled helicoid
	0.9m - ∞

Finder	Macro ratio
	Base Length
	37.0mm(effective base length 25.9mm)
	Automatic parallax correction.
	88% at 3m
	viewfinder diopter (19mm thread) can be screwed on.

Indicators in view finder	Exposure indication by LED(A, Shutter speed)
	Aperture Priority Auto Mode
	Aperture priority shutter speed indicator II
	Manual exposure mode
	Shutter speed indicator II when proper speed is selected
	Shutter speed indicator blinks when wrong speed is selected
	When the exposure is out of range, either "500" or "4s" will blink.
	Battery consumption warning : indicator blinks.

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Shutter	Electronically controlled lens shutter
Shutter speed	B. 4s - 1/500sec (When the aperture is set faster than F4, maximum speed is 1/500 sec)

Flash terminal	X synchronic contact and hot shoe synchronized with all shutter speed setting.
Exposure control	Center weighted average metering.
Coupling range	EV 5.5-16(ISO 100)

Exposure Mode	Aperture priority Auto exposure. Manually set exposure.
AE lock	By pressing shutter release button halfway.

Exposure compensation	Manually var. -1/3 stops
Film Speed	Manually var. ISO25-3200(1/3 steps)

Film Loading	Manual
Film winding	By film advance dial
	Advancing angle : Minimum 238°, Maximum 442°

Film counter	Additive type with auto reset.
	Automatically switched to 120 or 220 type synchronized with film type selector
	switch on film pressure plate.

Others	1x1 CR2 Lithium battery
	Tripost socket, Cable shutter release screwthread, film indicator pocket
Size	175mm(W) x 105mm(H) x 138mm or 64mm(D).
Weight	1,000g (without battery)

*These specifications and external appearance are subject to change without prior notice for the purpose of improvements.